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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/008,810	11/13/2001	Debasis Majumdar	82857LMB 5670	
75	90 05/22/2006		EXAMINER	
Paul A. Leipold			YOON, TAE H	
Patent Legal Sta	aff			·
Eastman Kodak Company			ART UNIT	PAPER NUMBER
343 State Street			1714	
Rochester, NY 14650-2201			DATE MAILED: 05/22/2006	6

Please find below and/or attached an Office communication concerning this application or proceeding.

		4				
	Application No.	Applicant(s)				
Office Assign Ourses	10/008,810	MAJUMDAR ET AL.				
Office Action Summary	Examiner	Art Unit				
	Tae H. Yoon	1714				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 13 Ap	<u>oril 2006</u> .					
2a) ☐ This action is FINAL . 2b) ☒ This	action is non-final.					
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closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>14,16,18-20,22-35,49 and 54-65</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>14,16,18-20,29-35 and 49</u> is/are allowed.						
6)⊠ Claim(s) <u>22-28 and 54-65</u> is/are rejected.	·					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) acce	epted or b) objected to by the	Examiner.				
Applicant may not request that any objection to the		• •				
Replacement drawing sheet(s) including the correction	· · · · · · · · · · · · · · · · · · ·					
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P1O-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents						
 Copies of the certified copies of the prior application from the International Bureau 	-	ed in this National Stage				
* See the attached detailed Office action for a list	• • • • • • • • • • • • • • • • • • • •	ed.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Do 5) Notice of Informal F 6) Other:	ate Patent Application (PTO-152)				

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The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 22-28 and 54-65 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The recited "said article" in claims 22-24, 54 and 55 lacks an antecedent basis since an extruded base is claimed, and thus claims are indefinite.]

The recited "the Young's modulus" in claims 26, 27, 56 and 57 lacks an antecedent basis.

Claim 23 is confusing and indefinite since polyolefins are taught as compatibilizers as well as a matrix resin when combined with claims 14 and 22.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 54-65 are rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Acquarulo et al (US 6,833,392).

Acquarulo et al were discussed in previous office actions.

Acquarulo et al teach melt mixed PEBAX and clay by twin-screw extrusion or two-roll mill in examples, table 2 and at col. 3, lines 3-14. Such processes inherently yield PEBAX and intercalated clay. Tubular shaft is taught at col. 3, lines 51-67 which meets the extruded base. The recited properties are inherent in extruded product of Acquarulo et al since the same components are used. The instantly recited "comprising' permits the presence of a crosslinking promoter. The recited "imaging member' is an intended use and thus has no probative value.

Thus, the instant invention lacks novelty.

Claims 54-65 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fisher (US 6,579,927) in view of Acquarulo et al (US 6,833,392).

Fisher and Acquarulo, Jr. et al are discussed in previous office actions.

Note that the matrix polymer, polyester and polyolefin, is not needed.

Fisher teaches a block copolymer intercalated caly. One of block copolymer could be polyethylene oxide (polyether)-b-polyamide (col. 3, line 44 and col. 4, line13). Acquarulo, Jr. et al teach the use of such block copolymer (PEBAX) with clay in examples. Fisher teaches various matrix polymer including polyolefins and polyesters

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at col. 3, line 22. Fisher also teaches articles obtained by an extrusion meeting the instant extruded base.

It would have been obvious to one skilled in the art at the time of invention to utilize polyethylene oxide (polyether)-b-polyamide taught by Acquarulo, Jr. et al in intercalating clay and further to make an extruded product since Fisher teaches such modification and choosing species such as block copolymer and matrix resins from disclosed species is considered a routine practice in the art and since Fisher also teaches articles obtained by an extrusion meeting the instant extruded base.

Claims 14, 16, 18-20, 29-35 and 49 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tae H. Yoon whose telephone number is (571) 272-1128. The examiner can normally be reached on Mon-Thu.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be reached on (571) 272-1119. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tae H Yoon

Primary Examiner
Art Unit 1714

THY/May 17, 2006